



COMPOSITE SILICA PROPPANT MATERIAL

ABSTRACT

5 An improved lightweight and highly permeable proppant composition for
use in increasing the productivity of a gas or oil well. The proppant composition
includes equal amounts by weight of uncalcined bauxite, uncalcined shale and
quartz, held together with a binder formed of wollastonite and talc in an amount of
less than 10% by weight of the composition. The proppant composition has an
10 alumina content of less than 25% by weight of the composition and a silica content
of over 45% by weight of the composition.